

I. GENERAL

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD157 (MERRITT BLVD) AND MOORGATE ROAD/MEADOW LANE IN BALTIMORE COUNTY. THE EXISTING SIGNAL HEAD MODULES WILL BE REPLACED WITH LED MODULES AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS. SIGNS AND COUNTDOWN PEDESTRIAN SIGNALS WILL BE INSTALLED FOR CROSSING MD157. MD 157 IS ASSUMED TO RUN IN THE NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE FULLY ACTUATED MODE WITH CONCURRENT MOVEMENTS ON MERRITT BLVD. THE MOORGATE ROAD/MEADOW LANE MOVEMENTS OPERATE CONCURRENTLY AND HAVE AN ALTERNATE COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE/TACTILE PEDESTRIAN SIGNALS.
- THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT, TELEMETRY CABLE AND ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "6" BASE-MOUNTED CABINET SHALL BE USED AT THIS INTERSECTION. A NEW 2 WIRE CENTRAL CONTROL UNIT WILL BE INSTALLED IN THE CABINET.

III. INTERCONNECT NOTES

SEE SHEET SP-15 OF 39 FOR INTERCONNECT DETAILS AND QUANTITIES

IV. APS NOTES

- TO CROSS MD157:
- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON WILL ANNOUNCE "WAIT TO CROSS MERRITT AT MOORGATE AND MEADOW. CROSSWALK ANGLES LEFT."
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
900000	41 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
	2 EA	R10-3(1) "PUSH BUTTON TO CROSS MERRITT BLVD" SIGN (9"x15")
	2 EA	M1-5(4) "MERRITT BLVD" AND "MD 157 NORTH/SOUTH" SIGN (78"x 36") MAST ARM MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CAT CODE	QUANTITY	DESCRIPTION
201032	5 CY	CLASS 2 EXCAVATION
203030	1-5 CY	TEST PIT EXCAVATION
585462	15 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
600000	102 SF	DETECTABLE WARNING SURFACES FOR CURB RAMPS (RED CLAY BRICK PAVERS)
634300	140 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER 8 INCH DEPTH
655105	360 SF	5 INCH CONCRETE SIDEWALK
800000	27 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL MODULE
800000	4 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
800000	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON AND SIGN
800000	1 EA	FURNISH & DELIVER 2 WIRE CENTRAL CONTROL UNIT
800000	40 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
800000	41 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
800000	3 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
802501	45 LF	NO.6 AWG STRANDED BARE COPPER GROUND WIRE
860284	3 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	565 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	580 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACTS

DISTRICT

MS. ERIN KUHN
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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ASSISTANT DISTRICT ENGINEER - UTILITIES
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OFFICE OF TRAFFIC AND SAFETY

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MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
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MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
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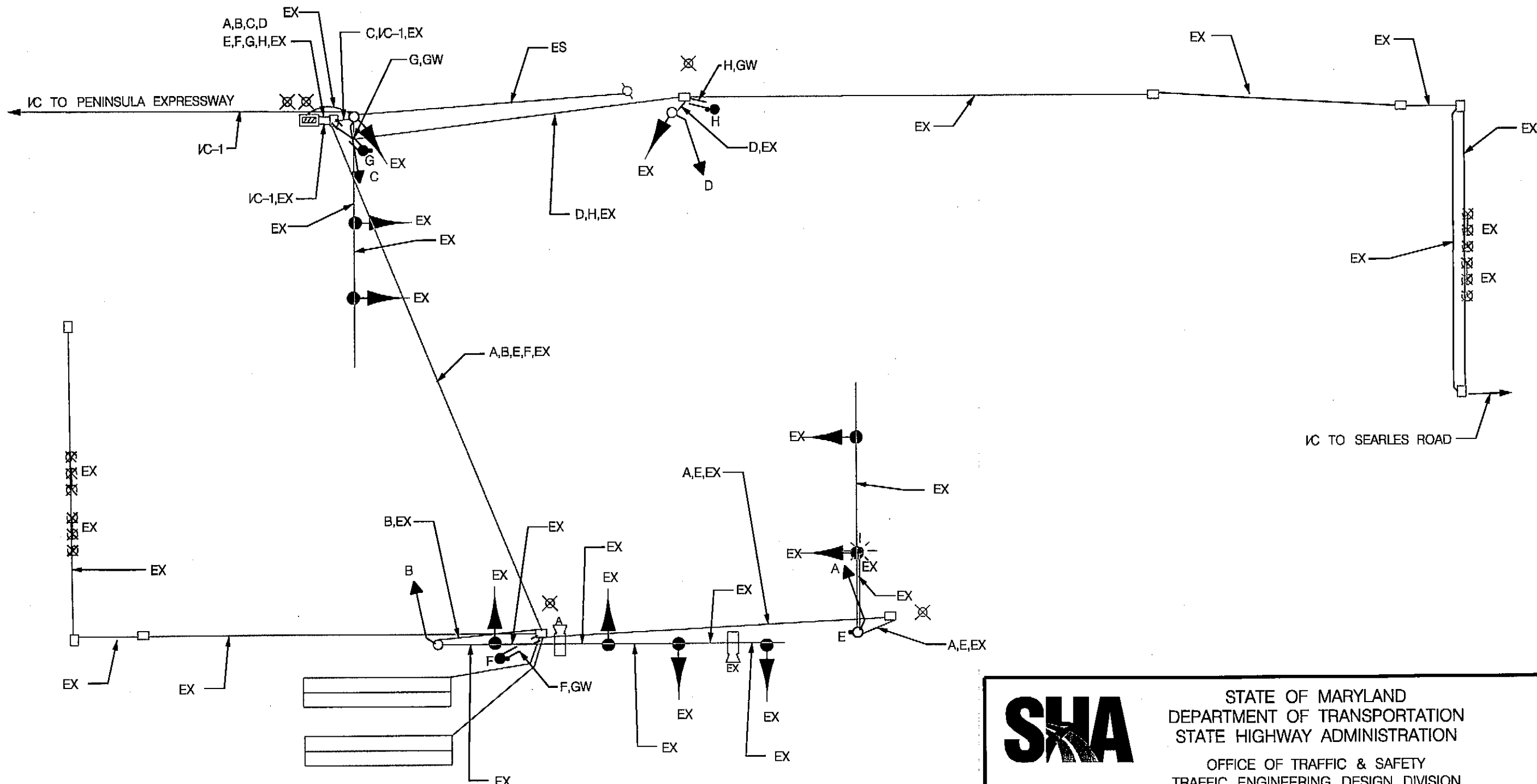
PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 & 8 ALT.	R	R	R	R	G	G	G	G	G	G	WK	WK	WK	WK
PED CLEAR	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 ALT. CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING KEY

- A.B.C.D - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E.F.G.H - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- I/C-1 - 12-PAIR COMMUNICATION INTERCONNECT CABLE (SELF-SUPPORTED)
- ES - EXISTING ELECTRICAL SERVICE (OVERHEAD)
- EX - EXISTING WIRING
- ⊗ - EXISTING GROUND ROD

WIRING DIAGRAM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 157 AND MOORGATE ROAD/MEADOW LANE
DUNDALK, MARYLAND

GENERAL INFORMATION PLAN

SCALE 1" = 20' DATE 6/1/09 CONTRACT NO. BA1195168

DESIGNED BY K. PERMISOHN COUNTY BALTIMORE

DRAWN BY R. ROBERTSON LOGMILE 03015703.03

CHECKED BY D. MACLEAN TMS NO. J639

FAP NO. TOD NO.

TS NO. 4339A GI DRAWING SP-12 OF 39 SHEET NO. 2 OF 2



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